

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P881122

Luminaire Tested: **22CZ2-44VHE-HRP-UNV-B35**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-HRP-UNV-B35
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

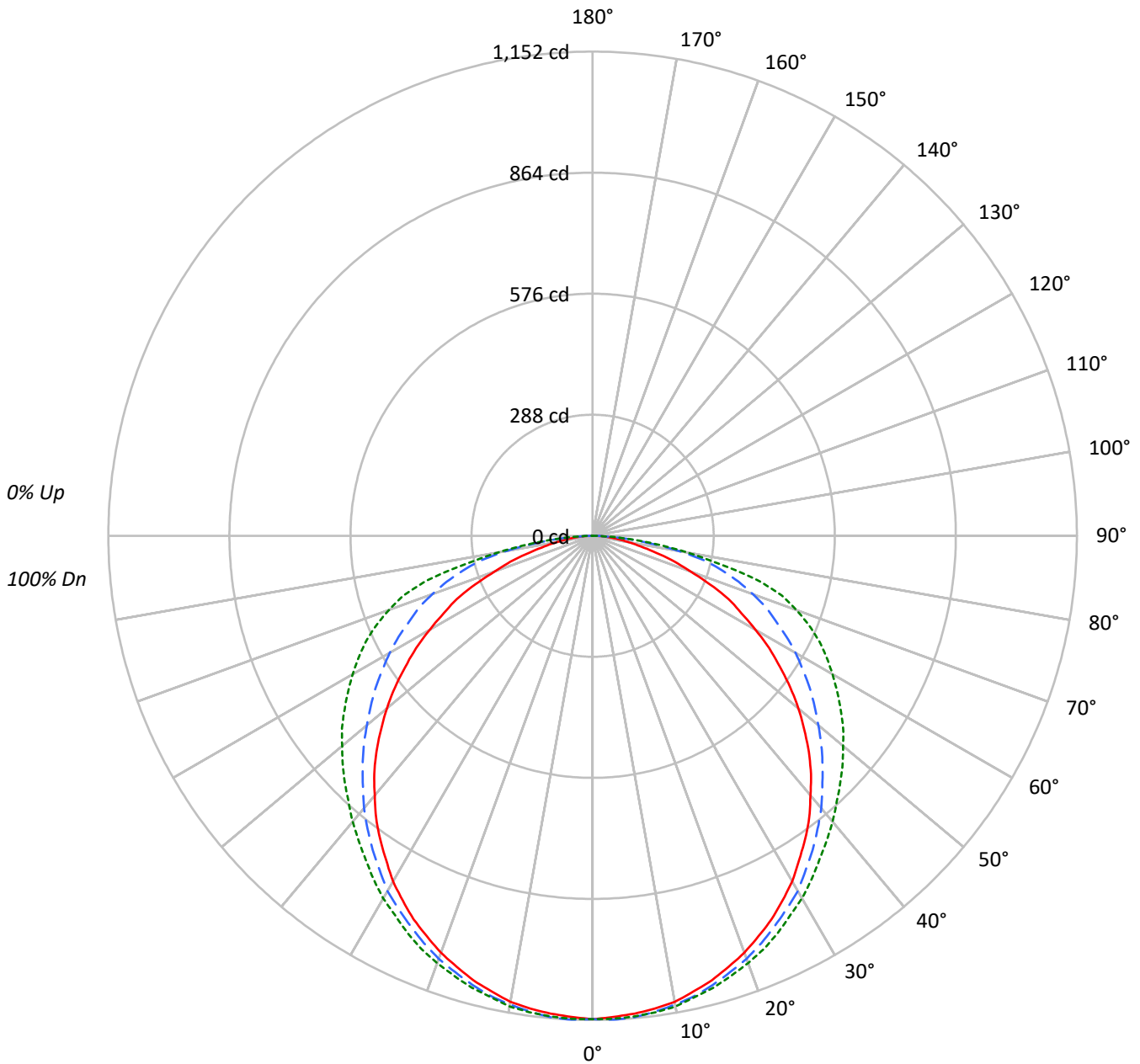
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3264	3264	3264
5°	3251	3276	3270
10°	3244	3263	3277
15°	3217	3249	3269
20°	3187	3234	3266
25°	3153	3208	3263
30°	3111	3198	3264
35°	3053	3160	3259
40°	2987	3134	3289
45°	2918	3104	3343
50°	2821	3093	3433
55°	2692	3118	3564
60°	2538	3163	3739
65°	2397	3225	3995
70°	2048	3364	4277
75°	1716	3504	4446
80°	1407	3384	3709
85°	1218	2507	2722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.1
10°-20°	311.8	8.9
20°-30°	472.6	13.5
30°-40°	570.6	16.3
40°-50°	599.6	17.2
50°-60°	564.2	16.2
60°-70°	470.4	13.5
70°-80°	311.7	8.9
80°-90°	83.0	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	893.4	25.6
0°-40°	1464.1	41.9
0°-60°	2627.9	75.2
0°-90°	3493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1141	1144	1150	1150	1148	108
15°	1095	1100	1106	1110	1113	309
25°	1007	1014	1025	1038	1042	464
35°	881	890	912	932	941	551
45°	727	738	774	813	833	560
55°	544	569	630	694	720	487
65°	357	388	480	560	595	347
75°	156	218	320	386	406	170
85°	37	57	77	84	84	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.2	1150.2	1150.2	1150.2	1150.2
2.5°	1145.8	1148.0	1152.4	1152.4	1150.2
5°	1141.4	1143.6	1150.2	1150.2	1148.0
7.5°	1134.8	1137.2	1141.4	1145.8	1143.6
10°	1126.0	1128.2	1132.6	1137.2	1137.2
12.5°	1110.5	1112.8	1121.6	1124.0	1124.0
15°	1095.1	1099.5	1106.1	1110.5	1112.8
17.5°	1075.3	1079.7	1088.5	1097.3	1097.3
20°	1055.5	1059.9	1070.9	1079.7	1081.7
22.5°	1031.3	1037.9	1048.9	1059.9	1064.3
25°	1007.1	1013.7	1024.7	1037.9	1042.3
27.5°	978.3	984.9	1000.5	1015.9	1017.9
30°	949.6	956.2	976.1	989.3	996.1
32.5°	914.4	923.2	943.0	962.8	969.4
35°	881.4	890.2	912.2	932.2	940.8
37.5°	846.2	854.8	879.2	903.6	914.4
40°	806.3	817.6	846.2	872.6	888.0
42.5°	769.1	780.1	808.8	844.0	859.4
45°	727.1	738.1	773.5	812.9	833.0
47.5°	683.1	696.3	738.1	786.7	806.3
50°	639.0	654.4	700.7	755.7	777.7
52.5°	592.6	612.6	665.4	725.1	751.3
55°	544.2	568.6	630.2	694.1	720.5
57.5°	497.9	520.2	592.6	661.0	689.7
60°	447.3	475.9	557.4	627.8	658.8
62.5°	398.9	429.7	520.2	595.0	627.8
65°	357.0	387.6	480.3	559.6	595.0
67.5°	301.8	343.8	447.3	522.1	557.4
70°	246.8	304.0	405.5	482.5	515.5
72.5°	204.9	260.0	363.7	440.7	471.5
75°	156.5	218.1	319.6	385.7	405.5
77.5°	116.9	180.7	273.2	306.4	308.4
80°	86.1	138.7	207.1	218.1	227.0
82.5°	59.7	96.9	134.5	147.5	152.1
85°	37.4	57.2	77.0	83.6	83.6
87.5°	19.8	22.0	26.4	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)